

AI
housing is designed for AC power spade terminals only. In this example, six AC power spade terminals 470, similar to those described previously with reference to and as shown in Figures 33 and 34, are disposed in connector housing 472. Again, the connectors are not intended to be limited to a design for six cable wires and the connector housing can be designed to accommodate any desired number of AC power spade terminals. The top face 473 of the connector housing exposes the opposing side walls of the receptacle end of the AC power spade terminals for mating with an appropriate header or plug connection. The AC power spade terminals are engaged in the connector housing by a friction fit as described previously and are retained in the housing by engagement with a locking bar 474 in the same manner described above. In this embodiment, the locking bar 474 is a separate piece. The connector housing is disposed within opposing halves 476 and 478 of a clamshell cable casing, which cable casing is of the type known in the art. In a preferred embodiment the cable casing is modified to include a groove 480 extending around the perimeter of the casing. A mounting bracket 482, which is affixed to some component structure by the use of screws or the like through holes 484, is designed such that opposing wings 486 and 488 and rail 490 fit into the groove 480. Power connectors of the type described herein float or move with respect to each other when they are mated together due to the design of the post projections 492 and the corresponding post-receiving holes in the mating connector. In order to accommodate the floatable characteristics of the mated power connectors described herein, the mounting bracket is dimensioned such that the wings 486 and 488 and the rail 490 fit loosely within the groove 480. As such, the connector housing 472 can float from side-to-side and forward-to-backward while being otherwise maintained in place by the mounting bracket 482. One of the wings of the mounting bracket can have a cut-out 494 that loosely engages a tab on the connector housing as a polarization feature to ensure proper orientation of the mounting bracket onto the cable casing. Otherwise, the loose fitting nature of the mounting bracket into the groove of the cable casing provides for blind mating of cable connector into the mounting bracket. This is beneficial due to the crowding of various connections in the system, which connections may be at a remote location that is difficult to access for a user.--